



AYA

Pitch Deck 2026

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# AYA: AI-Powered Mental Health Infrastructure for Africa

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**Transforming care from missed  
and inconsistent to objective,  
scalable, and system-ready**

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# The Crisis

Africa faces a silent mental health emergency. Over 150 million people undiagnosed and untreated for depression, anxiety, or PTSD. With fewer than 1.4 mental health workers per 100,000 people — 12 times below the WHO benchmark. The system is broken at the front door.



150M+

Undiagnosed and  
Untreated Africans



<10%

The detection rate  
with downstream  
consequences

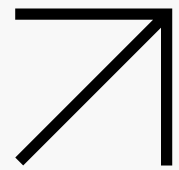


The Human Cost

Systemic Gaps



01

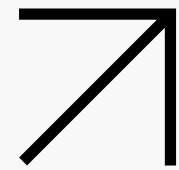


**Missed at the Front Door**

Less than 10% of mental health conditions are detected in primary care settings across Africa. Patients walk through the door, but their struggles remain invisible to overburdened healthcare systems.



02

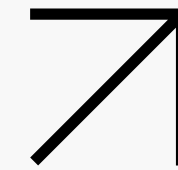


**Inconsistent & Subjective**

Without objective diagnostic tools, mental health assessments rely entirely on subjective judgment. Outcomes vary dramatically by clinician, leading to inconsistent care and missed diagnoses.



03



**Specialists Are Nowhere Near**

Africa has fewer than 1.4 mental health workers per 100,000 people — far below the WHO benchmark of 17. Trauma and psychiatric conditions go unaddressed for millions.





AYA

AYA Product

Detect

AI-powered psychiatric severity detection from a simple 30-second voice sample. No questionnaires needed — just natural speech analyzed for acoustic and paralinguistic markers of distress.

Intervene

Structured, detailed clinical report for clinical decision-support enables early intervention and triage. Empowers non-specialists to deliver consistent, objective, personalized mental health screening at scale.

Refer

Automated triage and referral pathways connect patients to appropriate care levels. System-ready insights feed population health dashboards for coordinated response.

# Introducing Clarity AI™



How it Works

STEP 1

Patient speaks a 30-second voice sample into the app or device. No questionnaires needed — just natural speech.

STEP 2

Clarity AI extracts acoustic and paralinguistic features from the voice sample using advanced speech emotion recognition.

STEP 3

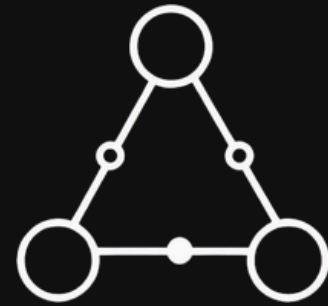
System generates an Emotional Distress Index score categorized as Low, Moderate, or Severe for clinical triage.

STEP 4

GenAI layer produces a Clinical report with structured recommendations, enabling informed decisions and appropriate referrals.

# From Voice to Decision in 1 Minute

# ClarityConnect™ Platform



## Case Management

Integrated case management system designed for mental health workflows. Track patient journeys, manage referrals, and maintain comprehensive records across care touchpoints.

## Trauma-Informed Workflows

Purpose-built workflows that recognize trauma patterns and guide appropriate interventions. Outcome tracking dashboards provide system-wide visibility for administrators and policymakers.

## Real-Time Coordination

Enable seamless communication between hospitals, NGOs, and government health systems. Share critical patient data securely while maintaining compliance with local regulations.





AYA

Clarity AI

01



**Multilingual AI**

Trained on 3,000+ Ethiopian language voice samples. Built with local datasets to understand African languages, accents, and cultural expressions—not adapted from Western models.



02



**Offline-First**

Designed to work without internet connectivity. Critical for rural clinics and remote areas where infrastructure is limited. Full functionality even in low-resource settings.

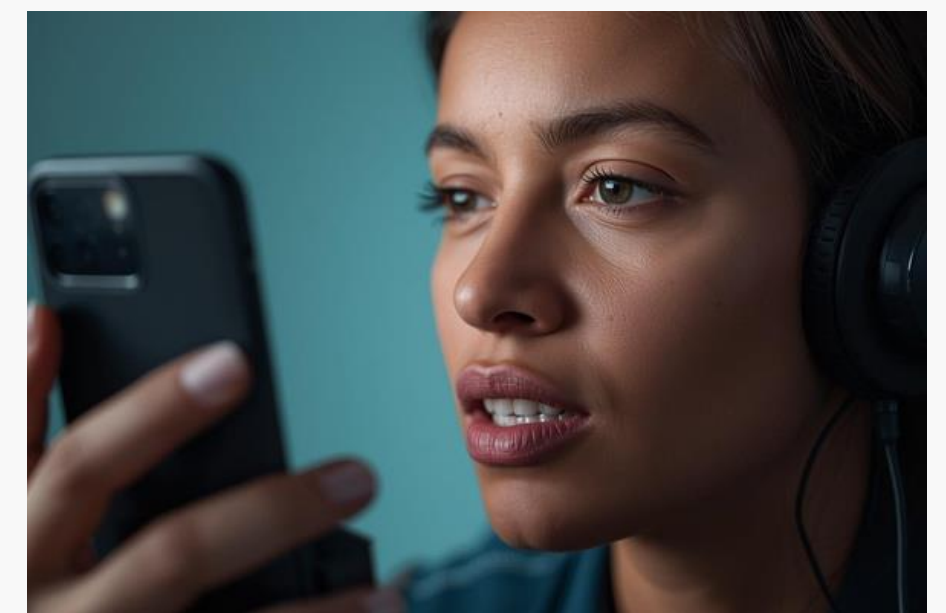


03



**Voice-Based**

Speech Emotion Recognition technology eliminates the need for lengthy questionnaires. A 30-second voice sample provides objective mental health insights instantly.





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Traction

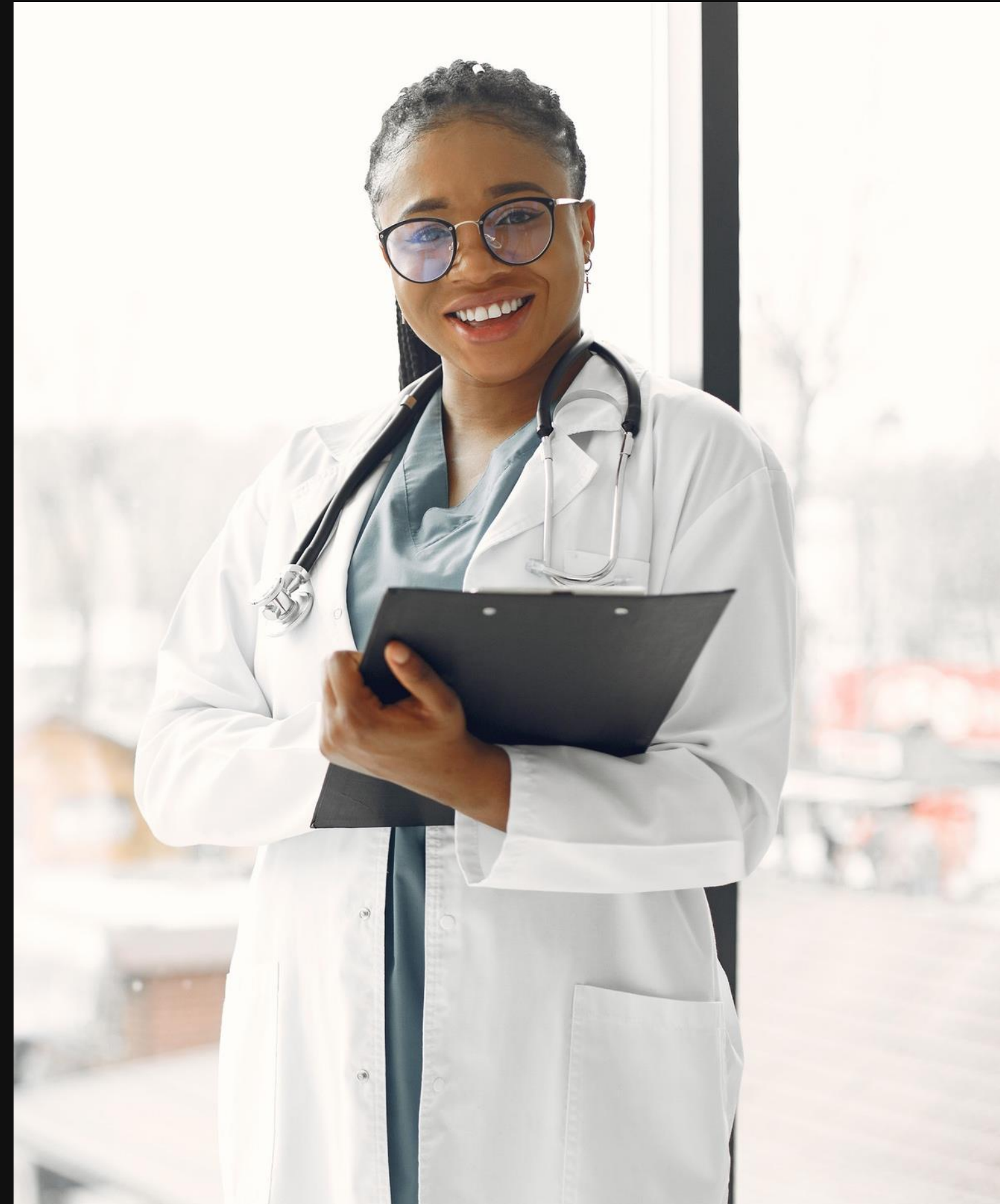
# EVIDENCE & ACCURACY

Our AI models are built on rigorous research and validated datasets. Backed by funding from the National Science Foundation and Google, Clarity AI delivers clinically reliable mental health detection for African populations.

**85-90% model accuracy in detection**

**14,000+ clinical data & voice samples in training data**

**4,000+ Ethiopian voice samples with PHQ-9, GAD-7, ACE, CAGE**





# Without AYA

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<5% detection rate in primary care settings across Africa, leaving 200M+ cases undiagnosed.

Inconsistent & subjective assessments with no standardized tools or outcome tracking.

No system visibility, fragmented care, and overwhelmed specialists with no support.

# With AYA

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60% detection rate through AI-powered voice screening in just 30 seconds.

Scalable, trauma-informed AI with structured clinical guidance and real-time dashboards.

Empowered non-specialists, coordinated workflows, and population-level insights.

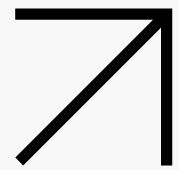


Impact at Scale

Stakeholder Benefits

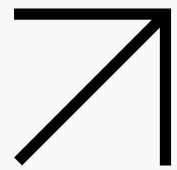


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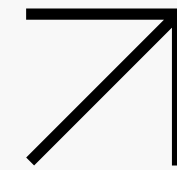
Health Systems

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Governments

10



Patients

Empower non-specialist workers with AI-guided clinical decisions. Structured workflows and real-time dashboards provide system visibility and enable data-driven resource allocation across facilities.

Scalable infrastructure delivers measurable mental health outcomes. Reduced long-term costs through early intervention, with population-level analytics for evidence-based policy and national health planning.

Early detection of depression, anxiety, and PTSD through voice-based screening. Reduced stigma with objective, non-invasive assessments. Faster access to appropriate care and trauma-informed support.





The Opportunity

# Market Opportunity

Africa's healthcare market represents a massive opportunity for AI-powered mental health infrastructure. With over 150M people affected by undiagnosed conditions and less than 10% detection rates, the demand for scalable solutions is unprecedented. AYA is positioned to capture significant market share through government contracts, NGO partnerships, and health system integrations.

**\$145B+**

Annual healthcare  
spending  
across Africa

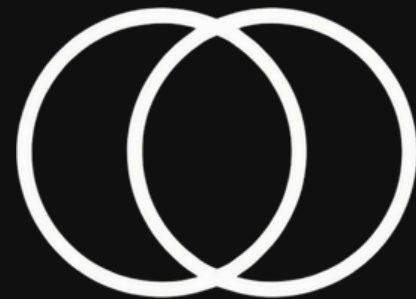
**\$21.7B**

annual value unlocked at full  
AI-enabled  
care coordination and early  
detection

# COMPETITIVE LANDSCAPE

COMPETITOR	SOLUTION MODEL	AI	MAIN CONSTRAINT	AYA ADVANTAGE
<b>AYA</b>	Agentic AI + digital mental health infrastructure	<b>AI First (Voice AI + Gen AI + Case Mgmt)</b>	—	<b>Built for African languages, offline deployment, primary care triage, post-conflict trauma &amp; system dashboards</b>
StrongMinds	Community group therapy	No AI	<i>Workforce-intensive, not diagnostic</i>	AYA adds scalable detection and clinical decision support
Friendship Bench	Lay health worker counseling	No AI	<i>Depends on trained human delivery</i>	AYA reduces reliance on scarce specialists
Wazi/African digital counseling models	Access / counseling platform	Limited AI, no Voice AI	<i>More access-oriented than triage-oriented</i>	AYA provides objective severity detection and referral guidance
Global Apps (Wysa, Woebot, Spring Health)	Chat / navigation platforms	Chat-based, not voice-first	<i>Built for literate, connected, high-income users</i>	AYA is built for low-literacy, low-connectivity African care systems

# Partnership Models



## Health Systems

Direct integration with hospitals and primary care networks. Deploy Clarity AI within existing clinical workflows to enable frontline detection and structured referral pathways across healthcare facilities.

## Government & NGO

Contract-based deployments for national health programs and humanitarian organizations. Scalable licensing for refugee camps, community health initiatives, and public mental health infrastructure.

## API & Platforms

Licensing and API access for digital health platforms and telemedicine providers. White-label solutions enabling partners to embed AI-powered mental health screening into their existing applications.





Advantage

# Global AI Platforms

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Limited African language support, require constant connectivity, trained on Western datasets, lack trauma-specific models.

Generic telehealth requires specialists, stable internet, and questionnaire-based assessments that miss cultural nuances.

No clinical guardrails, inconsistent outputs, not designed for resource-constrained health systems.

# AYA Advantage

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Multilingual African AI with 3,000+ local samples, offline-first architecture, trauma-informed detection built in.

Voice-based detection in 30 seconds, empowers non-specialists, works without connectivity in remote areas.

Constrained clinical GenAI with safe, structured outputs and integrated case management for health systems.



R&D

2024

2025

2026–27

2028–29

**Foundation & Workforce**  
Establish core team, secure initial funding, build AI infrastructure, and develop training programs for healthcare workers.

**Pilot Rollout**  
Launch pilots with 3 partners across 2 countries, validate clinical accuracy, gather real-world feedback, and refine platform.

**Scale-Up Phase**  
Expand to 10+ languages, deploy across multiple health systems, establish government partnerships, and grow user base.

**Multi-Country Adoption**  
Achieve, regulatory approval, sustainable funding models, and measurable population-level impact.

# Implementation Pathway



Leadership Team

# Our Team

Our leadership combines deep expertise in clinical psychology, artificial intelligence, trauma-informed care, and health system deployment across African markets.

**Yared Alemu, Ph.D.**  
CO-FOUNDER/CEO



**Patrick Ohiomba, MS**  
CO-FOUNDER/CTO



**Selam Nigussie, MD**  
CLINICAL DIRECTOR



**Abdi Digifu, MD**  
Implementation Lead





Join Us

Conduct rigorous clinical validation studies to demonstrate efficacy. Develop regulatory pathways and sustainability frameworks for long-term adoption.



# Next Steps & Call to Action

## Step 01

Launch pilots with 3 strategic partners across 2 African countries. Validate Clarity AI in real clinical environments with diverse patient populations and healthcare settings.

## Step 02

Expand voice dataset to support 10 African languages. Ensure cultural and linguistic accuracy for broader regional deployment and improved detection rates.

## Step 03

Partner with us to transform mental health infrastructure across Africa. We're seeking pilot partners, funding, and strategic collaborations to scale our impact.



Transforming Africa's Mental  
Health

# Let's Build Together

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**Contact :**

[ya@aya-innovation.com](mailto:ya@aya-innovation.com)

**Partner With Us**

Pilots | Funding | Integration Partners

**Website :**

[www.aya-innovation.com](http://www.aya-innovation.com)